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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/089,018	08/15/2002		Joerg Hauer	10191/2304	8991	
26646	7590	05/07/2003				
KENYON	& KENYO	ON	EXAMINER			
ONE BROA NEW YORK				BELLAMY, TAMIKO D		
				ART UNIT	PAPER NUMBER	
			•	2856	:	
•		,		DATE MAILED: 05/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>y</b>		Application No.	Applicant(s)	′ \					
· ·•		10/089,018	HAUER ET AL.						
	Office Action Summary	Examin r	Art Unit						
		Tamiko D. Bellamy	2856						
Th MAILING DATE of this communication app ars on th cover sh t with th correspondenc address Period for Reply									
THE M - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period veto reply within the set or extended period for reply will, by statute apply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from . cause the application to become ABANDONE	mely filed  ys will be considered timely. In the mailing date of this con ED (35 U.S.C. § 133).	nmunication.					
1)[	Responsive to communication(s) filed on 15 A	August 2002 .							
2a) <u></u>	This action is <b>FINAL</b> . 2b) Th	is action is non-final.							
3)									
Dispositi	on of Claims								
4) 🖾	Claim(s) $8-14$ is/are pending in the application	1.							
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	Claim(s) is/are allowed.	<b>'.</b>							
6)⊠ Claim(s) <u>8-14</u> is/are rejected.									
7)	Claim(s) is/are objected to.								
8) 🗌	Claim(s) are subject to restriction and/o	r election requirement.							
Applicati	on Papers								
,	The specification is objected to by the Examine								
10)⊠ The drawing(s) filed on <u>15 August 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)	X All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority document								
	2. Certified copies of the priority document								
* 0	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
				application).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.									
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachmen		A) [ ]	ry (PTO 412) Pages No.	e)					
2) Notic	ce of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	4) Interview Summa 5) Notice of Informa 6) Other:							
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#### **DETAILED ACTION**

## **Drawings**

1. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. On page 1, line 18 of the specification the applicant states that fig. 2 is a known micromechanical yaw rate sensor.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fell (5,915,276).

With respect to claims 8, 9, 12, and 14, Fell discloses in Figs. 10b and 11 four support legs 8 that are equivalent to flexural spring device, a rim ring 7 that is equivalent to a flywheel, and a structure 6 that is located via the boss 9 on an substrate 21 that is equivalent to a bridge (col. 8, lines 39-40). The boss 9 is a combination of the bridge and the anchoring device. Fell lacks the detail of an anchoring device including two opposite bases. However, The omission of an element and its function in a combination, where the remaining elements perform

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the same functions as before, involves only routine skill in the art. In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975); In re Karlson, 311 F.2d 581, 136 USPQ 184 (CCPA 1963). With respect to further limitations of claim 14, Fell discloses the vibrating structure 6 can be made of silicon, quartz or metal (col. 8, lines 24-26); and the substrate 21 can be made of glass or silicon (col. 8, lines 40-41). Therefore, it would have been obvious to one of ordinary skill in the art to provide Fell with an anchoring device including two opposite bases, so that the device is securely fixed to the substrate.

With respect to claim 10, as shown in Fig. 10b, Fell discloses four support legs 8 that form an X shape as claimed.

With respect to claim 11, Fell discloses the vibrating the structure in a Cos 20 frequency mode. Fell lacks the detail of the selecting an angle such that the frequency about the axis of rotation perpendicular to the surface of the substrate is smaller than the frequency about the axis of rotation parallel to the surface of the substrate. However, the selected angle is a design choice clearly within the preview of one of ordinary skill in the art.

With respect to claim 13, Fell discloses a boss 9 that is equivalent to a bridge. Fell lacks the detail of the bridge that is suspended freely over the substrate. However, it is well known in the art to use an angular sensor including a bridge that is freely suspended. Therefore, it would have been obvious to one of ordinary skill in the art to provide Fell with a freely suspended bridge portion, so that the vibrating structure extends above the substrate.

#### Conclusion

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamiko D. Bellamy whose telephone number is (703) 305-4971. The examiner can normally be reached on Monday through Friday 9:00 AM to 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (703) 305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Tamiko Bellamy

T.B.

May 1, 2003

HELEN KWOK
PRIMARY EXAMINER

Julen Hench